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=> d his l30

     (FILE 'HCAPLUS' ENTERED AT 11:54:36 ON 30 DEC 2008)
L30           1 S L27-L29

=> d que l30
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L24          52 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "AONO HIROYUKI"/AU
L25          12 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "TSUKAHARA YAEKO"/AU
L26          60 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "HATA TAEKO"/AU
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L28           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 AND ((L25 OR L26))
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L30           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L27 OR L28 OR L29)


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L30  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2005:29228  HCAPLUS  Full-text
DOCUMENT NUMBER:          142:107431
TITLE:                    Pain threshold fall inhibitor
INVENTOR(S):              Shimomura, Kyoichi; Aono, Hiroyuki
                          ; Tsukahara, Yaeko; Hata, Taeko
PATENT ASSIGNEE(S):       Santen Pharmaceutical Co., Ltd., Japan
SOURCE:                   PCT Int. Appl., 30 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
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     WO 2005002622         A1    20050113    WO 2004-JP9766          20040702
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
     JP 2005041866         A     20050217    JP 2004-196146          20040702
     EP 1642590            A1    20060405    EP 2004-747234          20040702
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
     US 20070117853        A1    20070524    US 2005-562742          20051229
PRIORITY APPLN. INFO.:                        JP 2003-270967      A   20030704
                                              WO 2004-JP9766      W   20040702
OTHER SOURCE(S):          MARPAT 142:107431
AB   A medical drug capable of inhibiting the fall of pain threshold.  In
     particular, a κ-opioid receptor agonist is capable of effectively inhibiting
     the fall of pain threshold, so that it is useful as a pain threshold fall
     inhibitor.
REFERENCE COUNT:          10    THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

******* QUERY RESULTS *******

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=> d ide l18


L18  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN   610309-27-8  REGISTRY
ED   Entered STN:  29 Oct 2003
CN   Ethanone, 1-[6-chloro-2-[2-[3-[(2-ethoxyethyl)(1-
     methylethyl)amino]propoxy]-5-methoxyphenyl]-3(2H)-benzothiazolyl]-  (CA
     INDEX NAME)
OTHER CA INDEX NAMES:
CN   Benzothiazole, 3-acetyl-6-chloro-2-[2-[3-[(2-ethoxyethyl)(1-
     methylethyl)amino]propoxy]-5-methoxyphenyl]-2,3-dihydro- (9CI)
MF   C26 H35 Cl N2 O4 S
CI   COM
SR   CA
LC   STN Files:   CA, CAPLUS, USPAT2, USPATFULL
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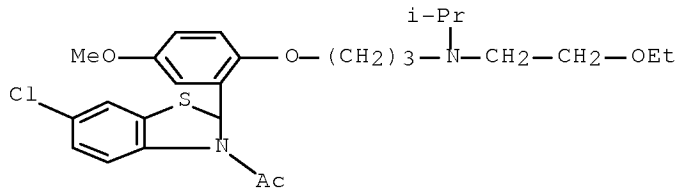


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)


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L17  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN   823204-39-3  REGISTRY
ED   Entered STN:  31 Jan 2005
CN   Butanedioic acid, 2,3-bis(acetyloxy)-, (2R,3R)-, compd. with
     1-[6-chloro-2-[2-[3-[(2-ethoxyethyl)(1-methylethyl)amino]propoxy]-5-
     methoxyphenyl]-3(2H)-benzothiazolyl]ethanone (1:2)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Butanedioic acid, 2,3-bis(acetyloxy)-, (2R,3R)-, compd. with
     (+)-3-acetyl-6-chloro-2-[2-[3-[(2-ethoxyethyl)(1-
     methylethyl)amino]propoxy]-5-methoxyphenyl]-2,3-dihydrobenzothiazole (1:2)
     (9CI)
FS   STEREOSEARCH
MF   C26 H35 Cl N2 O4 S . 1/2 C8 H10 O8
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL

     CM   1

     CRN  610309-34-7
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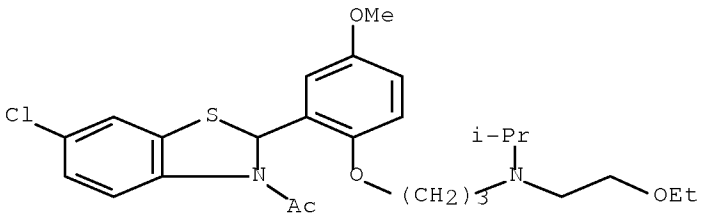
CMF C26 H35 Cl N2 O4 S

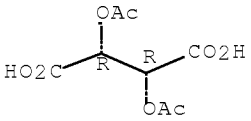
Rotation (+).



CM 2

CRN 51591-38-9
CMF C8 H10 O8

Absolute stereochemistry. Rotation (-).



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d his l21

(FILE 'HCAPLUS' ENTERED AT 11:54:36 ON 30 DEC 2008)
L21 2 S L19 OR L20

=> d que l21
L17 1 SEA FILE=REGISTRY ABB=ON PLU=ON 823204-39-3/RN
L18 1 SEA FILE=REGISTRY ABB=ON PLU=ON 610309-27-8/RN
L19 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L17
L20 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L18
L21 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 OR L20

=> d l21 1-2 ibib abs hitstr hitind

L21 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:29228 HCAPLUS Full-text
DOCUMENT NUMBER: 142:107431
TITLE: Pain threshold fall inhibitor
INVENTOR(S): Shimomura, Kyoichi; Aono, Hiroyuki; Tsukahara, Yaeko; Hata, Taeko
PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005002622	A1	20050113	WO 2004-JP9766	20040702
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005041866	A	20050217	JP 2004-196146	20040702
EP 1642590	A1	20060405	EP 2004-747234	20040702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
US 20070117853	A1	20070524	US 2005-562742	20051229

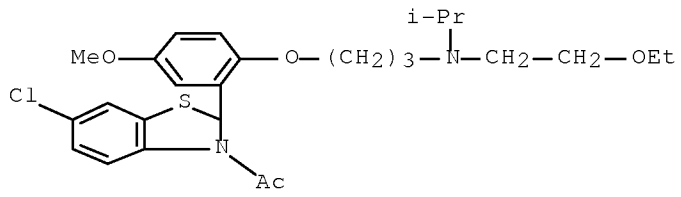
PRIORITY APPLN. INFO.: JP 2003-270967 A 20030704
WO 2004-JP9766 W 20040702

OTHER SOURCE(S): MARPAT 142:107431

AB A medical drug capable of inhibiting the fall of pain threshold. In particular, a κ-opioid receptor agonist is capable of effectively inhibiting the fall of pain threshold, so that it is useful as a pain threshold fall inhibitor.

IT 610309-27-8 823204-39-3
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(κ-opioid receptor agonists as pain threshold fall inhibitors)

RN 610309-27-8 HCAPLUS
CN Ethanone, 1-[6-chloro-2-[2-[3-[(2-ethoxyethyl)(1-methylethyl)amino]propoxy]-5-methoxyphenyl]-3(2H)-benzothiazolyl]- (CA INDEX NAME)



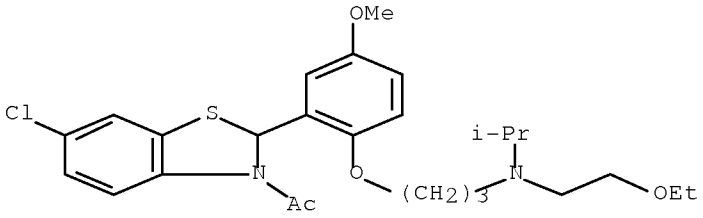
RN 823204-39-3 HCAPLUS
CN Butanedioic acid, 2,3-bis(acetyloxy)-, (2R,3R)-, compd. with 1-[6-chloro-2-[2-[3-[(2-ethoxyethyl)(1-methylethyl)amino]propoxy]-5-methoxyphenyl]-3(2H)-benzothiazolyl]ethanone (1:2) (CA INDEX NAME)

CM 1

CRN 610309-34-7

CMF C26 H35 Cl N2 O4 S

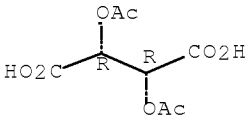
Rotation (+).



CM 2

CRN 51591-38-9
CMF C8 H10 O8

Absolute stereochemistry. Rotation (-).



IC ICM A61K045-00
ICS A61K031-428; A61P025-00; C07D207-09; C07D277-66
CC 1-11 (Pharmacology)
Section cross-reference(s): 63
IT 83913-06-8 185951-07-9 610308-87-7 610308-92-4 610309-27-8
610309-63-2 823204-37-1 823204-39-3 823204-44-0
823204-46-2 823791-11-3, 2-(3,4-Dichlorophenyl)-N-methyl-N-[(5R',7S',8S')-7-(1-pyrrolidinyl)-1-oxaspiro[4.5]dec-8-yl]acetamide methanesulfonate
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(κ-opioid receptor agonists as pain threshold fall inhibitors)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:796678 HCAPLUS Full-text
DOCUMENT NUMBER: 139:312393
TITLE: κ-Opioid receptor agonist comprising 2-phenylbenzothiazoline derivative
INVENTOR(S): Tokai, Maki; Honda, Takahiro; Niwa, Masashi; Osumi, Yaeko; Fujimura, Ken-ichi; Kohno, Shin-ichi
PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 129 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082840	A1	20031009	WO 2003-JP3928	20030328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2480560	A1	20031009	CA 2003-2480560	20030328
AU 2003220894	A1	20031013	AU 2003-220894	20030328
JP 2004002352	A	20040108	JP 2003-89657	20030328
EP 1496053	A1	20050112	EP 2003-715569	20030328
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1642929	A	20050720	CN 2003-807275	20030328
NZ 535987	A	20060831	NZ 2003-535987	20030328
CN 1911918	A	20070214	CN 2006-10139206	20030328
US 20050113430	A1	20050526	US 2004-509549	20040928
US 7112598	B2	20060926		
US 20060205796	A1	20060914	US 2006-434028	20060515
US 7410987	B2	20080812		

PRIORITY APPLN. INFO.:

JP 2002-97500	A	20020329
CN 2003-807275	A3	20030328
WO 2003-JP3928	W	20030328
US 2004-509549	A1	20040928

OTHER SOURCE(S): MARPAT 139:312393

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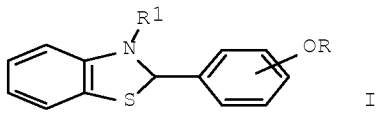
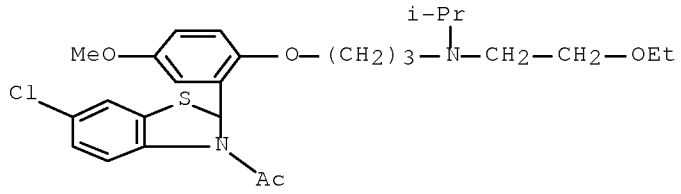


I

AB Dislocation closed is a κ-opioid receptor agonist comprising a 2-phenylbenzothiazoline derivative which is either a compound having a basic skeleton having a chemical structure represented by the general formula (I) (wherein R represents amino-substituted alkyl and R1 represents acyl) or a salt of the compound Also disclosed is an analgesic in particular for rheumatism-like diseases or anti-itching agent containing the above κ-opioid receptor agonist as an active ingredient. The presence of an amino-substituted alkyl group bonded to the Ph group of 2-phenylbenzothiazoline and the presence of an acyl group bonded to the nitrogen atom of the 2-phenylbenzothiazoline are important for the impartation of κ-opioid receptor agonistic activity. The compound I also possesses anti-nociception activity. For example, (+)-3-acetyl-6-chloro-2-[2-[3-[N-(2-ethoxyethyl)-N-isopropylamino]propoxy]- 5-methoxyphenyl]benzothiazoline hydrochloride at 30 mg/kg p.o. inhibited 100% pain in a mouse acetic acid-writhing assay.

IT 610309-27-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(κ-opioid receptor agonist, analgesic, and anti-itching agent comprising phenylbenzothiazoline derivative)
RN 610309-27-8 HCAPLUS
CN Ethanone, 1-[6-chloro-2-[2-[3-[(2-ethoxyethyl)(1-methylethyl)amino]propoxy]-5-methoxyphenyl]-3(2H)-benzothiazolyl]- (CA INDEX NAME)



IC ICM C07D277-66
ICS C07D417-12; A61K031-428; A61P029-00; A61P043-00; A61P025-04; A61P019-02; A61P019-06
CC 63-5 (Pharmaceuticals)
Section cross-reference(s): 1, 28
IT 610308-00-4P 610308-01-5P 610308-02-6P 610308-03-7P 610308-04-8P
610308-05-9P 610308-06-0P 610308-07-1P 610308-08-2P 610308-09-3P
610308-10-6P 610308-11-7P 610308-12-8P 610308-13-9P 610308-14-0P
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610309-49-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(κ-opioid receptor agonist, analgesic, and anti-itching agent comprising phenylbenzothiazoline derivative)

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

******* SEARCH HISTORY *******

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=> d his nofil

     (FILE 'HOME' ENTERED AT 11:25:04 ON 30 DEC 2008)

     FILE 'REGISTRY' ENTERED AT 11:25:16 ON 30 DEC 2008
L1          1239 SEA ABB=ON  PLU=ON  ISOPROPYL? (L) AMINO? (L) PROPOXY?
L2         50007 SEA ABB=ON  PLU=ON  METHOXY? (L) PHENYL? (L) BENZOTHIAZOL?
L3             8 SEA ABB=ON  PLU=ON  DIACETYL? (L) TARTRAT?
L4             0 SEA ABB=ON  PLU=ON  L2 (L) L3

     FILE 'STNGUIDE' ENTERED AT 11:27:41 ON 30 DEC 2008

     FILE 'REGISTRY' ENTERED AT 11:28:25 ON 30 DEC 2008
L5             1 SEA ABB=ON  PLU=ON  L2 (L) DIACETYL?
                 D SCAN
L6             1 SEA ABB=ON  PLU=ON  L1 (L) BENZOTHIAZOL?
                 D SCAN
L7         38484 SEA ABB=ON  PLU=ON  2 (L) ETHOXYETHYL?
L8             2 SEA ABB=ON  PLU=ON  L7 (L) L1
L9          1458 SEA ABB=ON  PLU=ON  L7 (L) ACETYL?
L10          250 SEA ABB=ON  PLU=ON  L9 (L) CHLORO?
L11            1 SEA ABB=ON  PLU=ON  L10 (L) DIACETYL?
                 D SCAN
L12           50 SEA ABB=ON  PLU=ON  L10 (L) BENZOTHIAZOL?

     FILE 'HCAPLUS' ENTERED AT 11:38:42 ON 30 DEC 2008

L13            1 SEA ABB=ON  PLU=ON  US20070117853/PN
                 SEL RN

     FILE 'REGISTRY' ENTERED AT 11:40:09 ON 30 DEC 2008
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                 610308-92-4/BI OR 610309-27-8/BI OR 610309-63-2/BI OR 823204-37
                 -1/BI OR 823204-39-3/BI OR 823204-44-0/BI OR 823204-46-2/BI OR
                 823791-11-3/BI OR 83913-06-8/BI)
L15            2 SEA ABB=ON  PLU=ON  L12 AND L14
                 D SCAN
                 D RN CN 1-2


     FILE 'STNGUIDE' ENTERED AT 11:43:45 ON 30 DEC 2008

     FILE 'REGISTRY' ENTERED AT 11:48:50 ON 30 DEC 2008
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                 D IDE
L18            1 SEA ABB=ON  PLU=ON  610309-27-8/RN
                 D IDE

     FILE 'HCAPLUS' ENTERED AT 11:54:36 ON 30 DEC 2008

L19            1 SEA ABB=ON  PLU=ON  L17
L20            2 SEA ABB=ON  PLU=ON  L18
L21            2 SEA ABB=ON  PLU=ON  L19 OR L20
L22            1 SEA ABB=ON  PLU=ON  L21 AND L13
                 D SCAN TI
                 D AU 1-2 L21
                 E SHIMOMURA KYOICHI/AU
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L23         126 SEA ABB=ON  PLU=ON  "SHIMOMURA KYOICHI"/AU
                E AONO HIROYUKI/AU
L24          52 SEA ABB=ON  PLU=ON  "AONO HIROYUKI"/AU
                E TSUKAHARA Y?/AU
L25          12 SEA ABB=ON  PLU=ON  "TSUKAHARA YAEKO"/AU
                E HATA TAEKO/AU
L26          60 SEA ABB=ON  PLU=ON  "HATA TAEKO"/AU
L27           1 SEA ABB=ON  PLU=ON  L23 AND ((L24 OR L25 OR L26))
L28           1 SEA ABB=ON  PLU=ON  L24 AND ((L25 OR L26))
L29           1 SEA ABB=ON  PLU=ON  L25 AND L26
L30           1 SEA ABB=ON  PLU=ON  (L27 OR L28 OR L29)

     FILE 'REGISTRY' ENTERED AT 12:01:45 ON 30 DEC 2008
L31           0 SEA ABB=ON  PLU=ON  L14 AND (L5 OR L6 OR L8 OR L11)

     FILE 'STNGUIDE' ENTERED AT 12:02:35 ON 30 DEC 2008
                D QUE L30

     FILE 'HCAPLUS' ENTERED AT 12:03:27 ON 30 DEC 2008
                D L30 1 IBIB ABS HITSTR

     FILE 'STNGUIDE' ENTERED AT 12:03:28 ON 30 DEC 2008

     FILE 'REGISTRY' ENTERED AT 12:03:50 ON 30 DEC 2008
                D IDE L18

     FILE 'STNGUIDE' ENTERED AT 12:03:51 ON 30 DEC 2008

     FILE 'REGISTRY' ENTERED AT 12:04:35 ON 30 DEC 2008
                D IDE L17

     FILE 'STNGUIDE' ENTERED AT 12:04:36 ON 30 DEC 2008
                D QUE L21

     FILE 'HCAPLUS' ENTERED AT 12:04:56 ON 30 DEC 2008
                D L21 1-2 IBIB ABS HITSTR HITIND

     FILE 'STNGUIDE' ENTERED AT 12:04:57 ON 30 DEC 2008
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